

## GENERAL FEATURES

- **New design product**
- **Full orifice solenoid valves**
- **Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, inert gases etc...)**
- Working Temperature: -10°C / +80°C
- Not suitable for use with dangerous fluids listed in Group 1
- **Minimum operating pressure differential 0,35 bar and 0,5 bar**
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- **On request; manual override**
- **On request; flanged types**
- Ideal for the automatic control of media in a wide range of applications.
- TORK solenoid valves satisfy relevant 97/23/EC, Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD).
- Coils interchangeable
- Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 1.20.3))

## ELECTRICAL CHARACTERISTICS

Continuous Duty	: ED %100
Coil Insulation Class	: H (180°C)
Coil Impregnation	: Polyester Fiber Glass
Coil Encapsulation Material	: Fiber Glass Reinforced
Ambient Temperature	: from -10°C; +60°C
Protection Degree	: IP 65 (EN 60529) with coil duly fitted with the plug connector
Electric Plug Connection	: DIN 46340 3-poles connectors (DIN 43650)
Connector Specification	: ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø 6-8 mm)
Electrical Safety	: IEC 335
Standard Voltages	: For AC 12V, 24V, 48V, 110V, 230V For DC 12V, 24V, 48V, 110 V

Other voltages on request;  
Voltage Tolerances : For AC -15%; +10%, For DC -5%; +10%  
Frequency : 50 Hz, other frequencies on request; (60 Hz ....)  
On request; connector with LED  
Specify coil voltage with order

## MATERIALS IN CONTACT WITH FLUID

Body	: Brass
Internal Parts	: Stainless Steel and brass
Sealing	: NBR
Shading Ring	: Copper
Seats	: Brass
Core Tube	: Stainless Steel
Springs	: Stainless Steel
On request; nickel plated body	
On request; sealing can be FPM (VITON), EPDM	

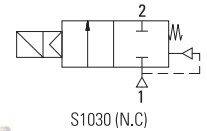
## TECHNICAL FEATURES

Max Viscosity : 5°E (~37cSt or mm<sup>2</sup>/s)  
Response Time : Opening Time : 400 ms to ~ 1600 ms,  
Closing Time : 1000 ms to ~ 2000 ms  
Maximum Allowable Pressure : 25 bar  
Fluid Temperature for FPM (VITON) from -10°C; +160°C, for EPDM from -10°C; +140°C

**NEW**

**Full Orifice**

**Normally Closed**



**TSEK**

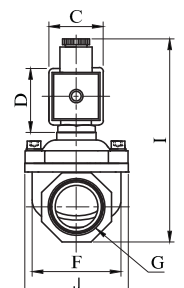
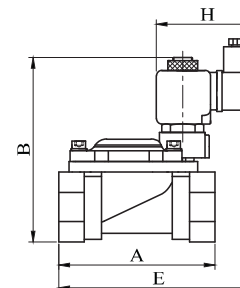
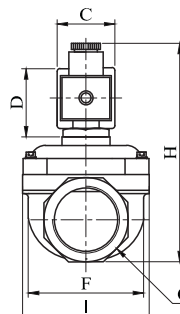
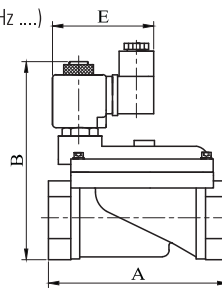
**TSE-HYB**

**CERT**

**CE**

**ROHS**

**GOST**



Dimensions (mm)

G	A	B	C	D	E	F	I	H
1 1/4"	141	143	32	45	76	96.5	110.7	156
1 1/2"	139	143	32	45	76	96.5	110.7	156
2"	145.6	153	32	45	76	96.5	110.7	165.5

Dimensions (mm)

G	A	B	C	D	E	F	J	H	I
3/8"	69	97	32	45	106.5	38	52	76	112
1/2"	69	97	32	45	106.5	40	52	76	112
3/4"	81.3	107.9	32	45	115.8	42.1	52	76	121
1"	87.9	115.3	32	45	122.4	51.5	60.9	76	127.5

Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	KV	Fluid Temperature		Seal	Weight
			min	max			min	max		
<b>S1030</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>		<b>°C</b>			<b>(kg)</b>
S1030.02	3/8"	12.5	0.35	16	45		-10	80	NBR	0.68
S1030.03	1/2"	12.5	0.35	16	65		-10	80	NBR	0.64
S1030.04	3/4"	20	0.5	16	120		-10	80	NBR	0.66
S1030.05	1"	25	0.5	16	170		-10	80	NBR	0.8
S1030.06	1 1/4"	46	0.5	12	390		-10	80	NBR	2.65
S1030.07	1 1/2"	46	0.5	12	460		-10	80	NBR	2.55
S1030.08	2"	46	0.5	12	580		-10	80	NBR	2.98

## Useful Informations

1 bar : 14,5 PSI : 10 mH<sub>2</sub>O : 10 N/cm<sup>2</sup> : 1 kg/cm<sup>2</sup> : 100000 Pa, 1 PSI : 69 mbar, 1 m<sup>3</sup>/h : 4,405 GPM : 16,7 L/d 1 Gallon / minute : 0,227 m<sup>3</sup>/h, 0°C : 89,6 F  
Sealings: NBR : Nitrile-Butylene Elastomer, FPM (VITON) : Fluoro-Carbon Elastomer, EPDM : Ethylene-Propylene Elastomer